UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,195	06/27/2005	Kenichi Koyakumaru	264982US0PCT	1486
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			DAVIS, ZINNA NORTHINGTON	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1625	
			NOTIFICATION DATE	DELIVERY MODE
			08/04/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

	Application No.	Applicant(s)	
	10/522,195	KOYAKUMARU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Zinna Northington Davis	1625	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>28 M</u> This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowardosed in accordance with the practice under <u>B</u>	s action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) Claim(s) <u>1-10</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-10</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the Examine and the second and the second area of the second and the second area of the second area.	epted or b) objected to by the Edination of the Edination of the Idah of the I	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)	
2) Notice of Treferences Cited (PTO-032) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 04/14/05.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte	

Application/Control Number: 10/522,195 Page 2

Art Unit: 1625

DETAILED ACTION

1. Claims 1-10 are pending.

- 2. Based upon Applicants remarks filed May 28, 2008, the election of species requirement is withdrawn. The claims are examined as a whole.
- 3. The Preliminary Amendments filed April 1, 2005 and May 28, 2008 have been considered.
- 4. At page 1, after the title, the continuing data should be updated.
- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is suggested that the term "derivative" should be amended to read as a "compound".

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

Art Unit: 1625

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

9. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over BASF A.G. (Reference AB, cited by Applicants) in view of Wakabayashi et al. (Reference AQ, cited by Applicants).

BASF A.G. teaches an aryl cross-coupling reaction in which a 2-benzene sulfonyl pyridine compound is reacted with an organic magnesium or zinc compound. At page 2, see the reaction scheme which is depicted as follows:

The difference between the prior art process and the instantly claimed process is the aromatic ring (carbocyclic versus heterocyclic) at the 2-position of the pyridine ring.

Wakabayashi et al. teach a similar cross coupling reaction wherein the final product is heterocyclic at the 2-positon of the pyridine ring. It would have been obvious

to one of ordinary skill in the art to interchange one aromatic ring for another in the cross coupling reaction in view of the similar chemical properties. Accordingly, the process is an obvious variant therefrom.

- 10. The Information Disclosure Statement filed April 14, 2005 has been considered.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zinna Northington Davis whose telephone number is 571-272-0682.
- 12. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Zinna Northington Davis/ Zinna Northington Davis Primary Examiner Art Unit 1625